

## INTRODUCTION TO EMERGENCY MEDICAL SERVICES

DOE #5210

CIP Code: 51.0904 Emergency Medical Technology/Technician (EMT Paramedic)

*Introduction to Emergency Medical Services* prepares students for State Certification as a First Responder which could lead to a career in Emergency Medical Services such as an Emergency Medical Technician or a Paramedic. A variety of instructional strategies and technologies will be used to teach students about emergency medical service operations, personal and scene safety, scene and patient assessment, and patient care. Students have the opportunity to develop first responder skills in simulated situations. Participation in HOSA affords the student the opportunity to compete in a variety of competitive events, specifically CPR/First Aid and EMT, at both the state and national level.

- Recommended Grade Level: 12
- Required Prerequisite: None
- Recommended Prerequisite: Anatomy and Physiology, Introduction to Health Care Systems or Integrated Health Sciences I & II
- Credits: A one semester course, one to two credits per semester
- A Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diploma directed elective course
- A Career Academic Sequence, Career-Technical program, or Flex Credit course
- Academic content standards:  
[http://www.doe.state.in.us/octe/health/hce/emergency\\_medical\\_services.pdf](http://www.doe.state.in.us/octe/health/hce/emergency_medical_services.pdf)
- Curriculum Framework:  
[http://www.doe.state.in.us/octe/health/hce/emergency\\_medical\\_services.pdf](http://www.doe.state.in.us/octe/health/hce/emergency_medical_services.pdf)
- Teacher Requirements: <http://doe.state.in.us/dps/licensing/assignmentcode>
- Funding: State Additional Pupil Count (APC) vocational funding available if taught by CTE licensed Health Sciences teacher

### ***Content Standards and Competencies***

The following are measurable exit standards and competencies that students should know and be able to do at the conclusion of the course. The content standards and competencies do not define a specific sequence for teaching and learning. While all content standards and competencies should be addressed in some way, teaching order and areas of emphasis will vary according to local needs.

#### **1. EMERGENCY MEDICAL SERVICES: DESCRIBE THE EMERGENCY MEDICAL SYSTEM.**

- 1.1. Define emergency medical service.
- 1.2. Identify the responsibilities of the First Responder, Emergency Medical Technician and Paramedic.
- 1.3. State the laws under which emergency medical service personnel are permitted to function.

**2. CAREER OPPORTUNITIES: DESCRIBE CAREER OPPORTUNITIES IN EMERGENCY MEDICAL SERVICES.**

- 2.1. Describe career pathways in emergency medical services.
- 2.2. Describe the educational requirements for credentialing as a First Responder, Emergency Medical Technician, and Paramedic.

**3. MEDICAL AND LEGAL ISSUES: DESCRIBE MEDICAL AND LEGAL ISSUES RELATED TO EMERGENCY MEDICAL SERVICES.**

- 3.1. Display a non-judgmental attitude toward patients.
- 3.2. Explain scope of practice and ethical responsibilities of the care provider.
- 3.3. Relate duty to act, confidentiality, abandonment, and negligence to ethical practice.
- 3.4. Describe advanced treatment directives, consents, and treatments.

**4. EMOTIONAL ASPECTS OF EMERGENCY CARE: DESCRIBE THE EMOTIONAL IMPACT OF MEDICAL EMERGENCIES.**

- 4.1. Identify the common signs and symptoms of emergency medical stress.
- 4.2. Describe techniques that can be utilized to reduce emergency medical stress.
- 4.3. Respond to patient's sense of crisis in a calm manner.
- 4.4. Describe common reactions to death.

**5. MEDICAL EMERGENCY SITUATION: ASSESS A MEDICAL EMERGENCY SITUATION.**

- 5.1. Relate major body structures and the primary function of each to trauma and illness.
- 5.2. Define medical terms used to describe common medical emergencies.
- 5.3. Identify potential hazards threatening the safety of a patient and/or rescuer.
- 5.4. Describe the procedures for gaining access to a patient.
- 5.5. Identify factors that indicate the need for additional assistance.
- 5.6. Assess the patient/scene and triage appropriately.
- 5.7. Describe the procedure for eliciting a medical history.
- 5.8. Communicate concisely and accurately in both written and oral formats.
- 5.9. Describe methods of communicating information to the radio physician.
- 5.10. Communicate effectively with the public and the media regarding patient status.

**6. PHARMACOLOGY: DEMONSTRATE KNOWLEDGE OF MEDICATIONS COMMONLY USED IN EMERGENCY SITUATIONS.**

- 6.1. Define the classifications and actions of drugs commonly used in emergency situations.
- 6.2. State the dosage, indication, side-effects, precautions, and contraindications for drugs commonly administered by emergency medical personnel.
- 6.3. Describe the various routes of drug administration and the indication for each.
- 6.4. State the procedure for verifying medication orders received over the radio from a physician.
- 6.5. Convert units of measurement within the apothecary and metric systems.

**7. MANAGE EMERGENCY CARE: PERFORM SKILLS RELATED TO EMERGENCY PATIENT CARE.**

- 7.1. Demonstrate proper initial care in an emergency situation.
- 7.2. Demonstrate the ability to assist professional staff when providing emergency care.
- 7.3. Demonstrate the appropriate technique for lifting and moving patients in relation to the type of injury present.
- 7.4. Perform CPR/First Aid effectively.
- 7.5. Describe the symptoms of heart attack and cardiac arrest.
- 7.6. Demonstrate proper use of automatic external defibrillation.
- 7.7. Demonstrate practical use of airway adjuncts.
- 7.8. Describe the treatment of bleeding and shock.
- 7.9. Demonstrate the treatment of soft tissue injuries, fractures, dislocations and amputations.
- 7.10. Demonstrate the care of head, chest, and spinal injuries.
- 7.11. Describe the management of emergency childbirth and patients with special needs.